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Effect of Cigarette Smoking on Lipids and Morphology of Alveolar Lining  
Material and Macrophages. Grant #628R2

Four studies are being undertaken:

- (a) Determination of the effect of cigarette smoking on the lipids and morphology of alveolar lining material and macrophages recovered by saline lavage of smoking and non-smoking humans.
- (b) Determination of acute and chronic effects of smoking on lipids and morphology of dog alveolar lining material and macrophages in situ as well as on fractions recovered by saline lavage.
- (c) Determination of the effect of cigarette smoking on the incorporation of radioactive lipids into alveolar lining material and macrophages of the dog.
- (d) Determination of the origin of the alveolar macrophage by labeling circulating white cells with radioactive lipids and amino acids and monitoring the transport of these labeled cells into the alveoli of the lung by radioautographic microscopy.

Current Grant Level: \$26,795.

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